

Fig. 1

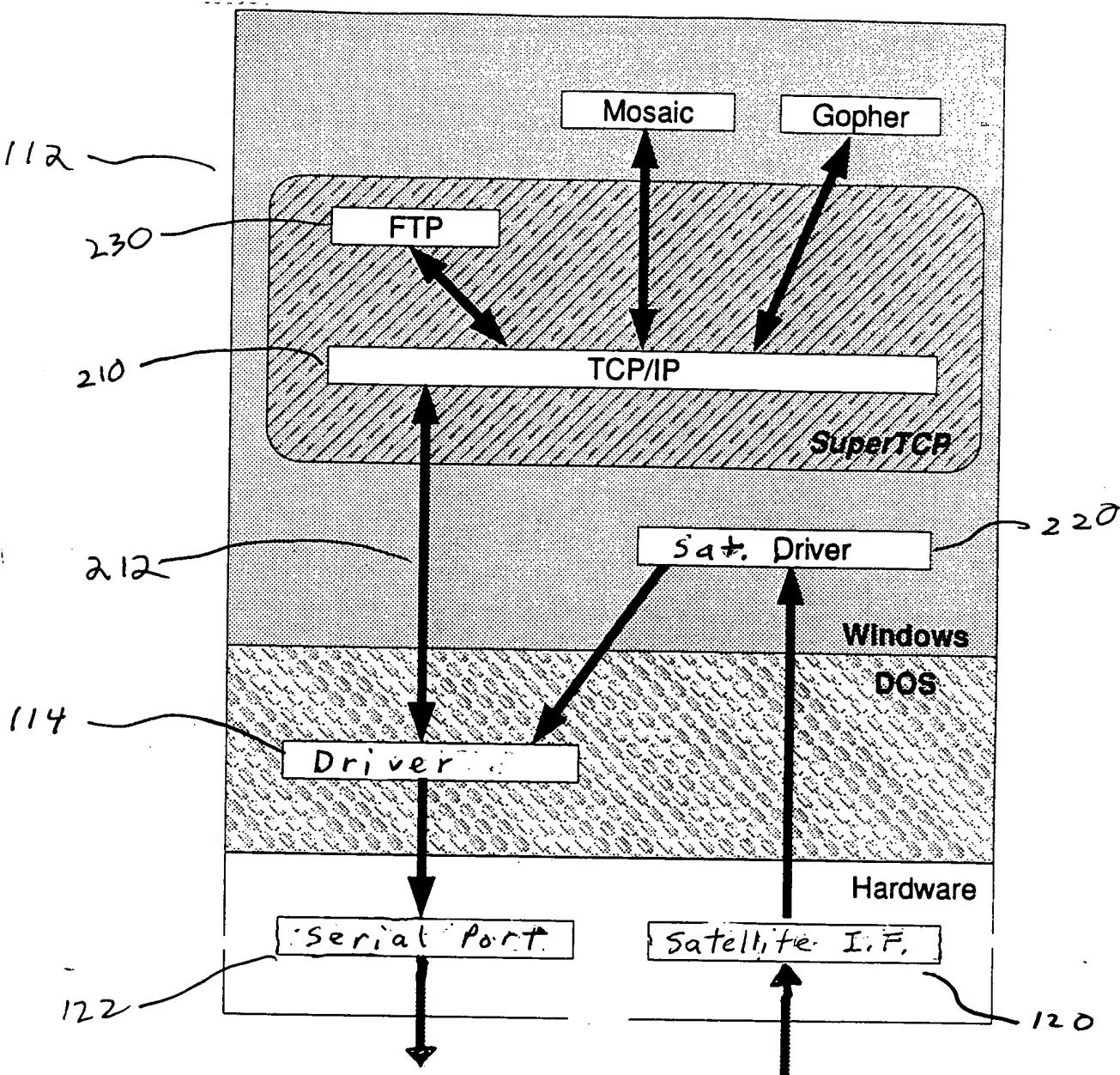


Fig. 2

Normal IP Packet

vers	hlen	service type	total packet length						
identification number		flags	fragment offset						
time to live	protocol	header checksum							
source IP address									
destination IP address									
IP options (if any)			padding						
DATA									

bit 0

bit 32

310

Fig. 3

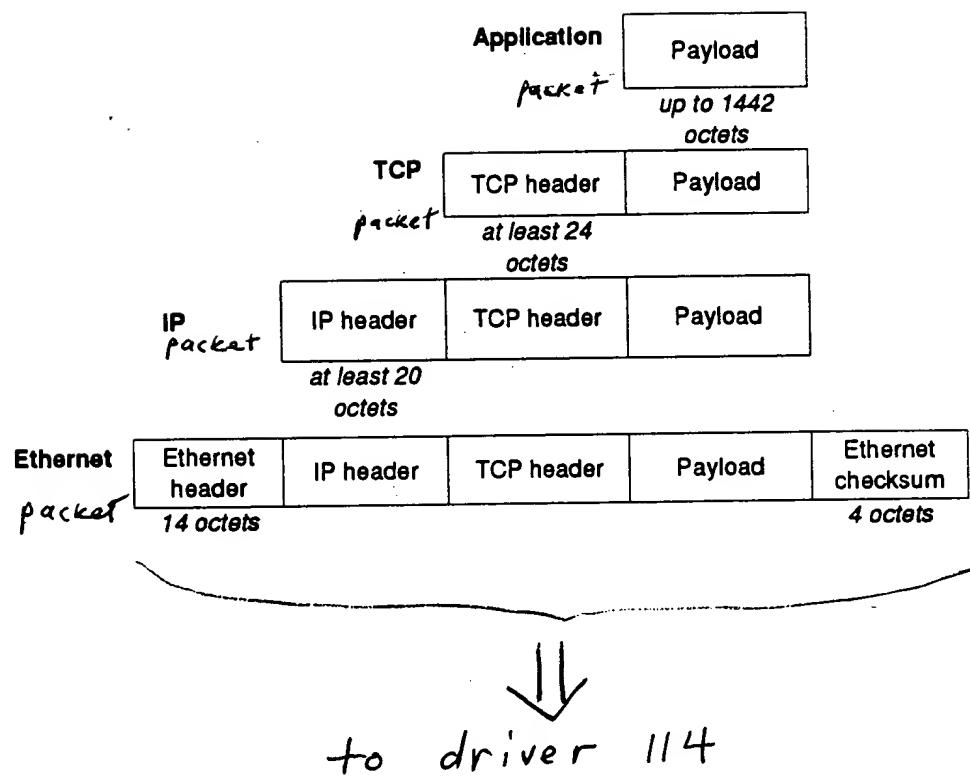


Fig. 4

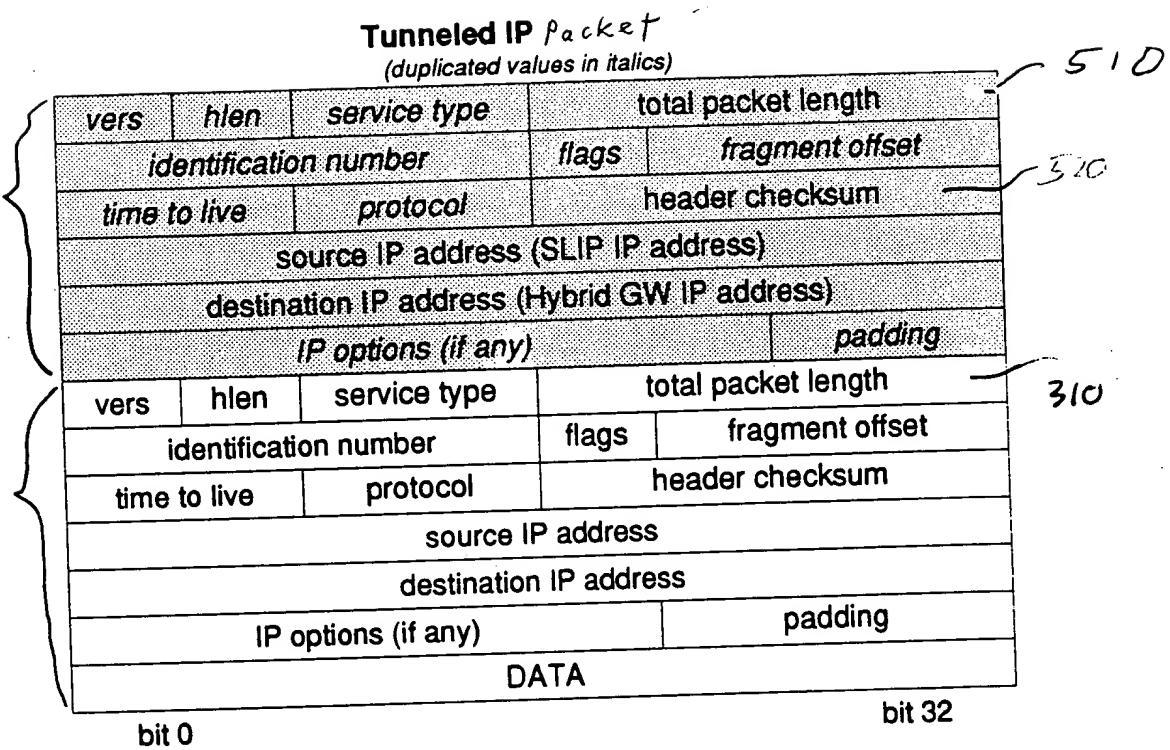


Fig. 5

From TCP/IP

regular
Ethernet
packetsARP
Ethernet
packets

From Satellite

Strip Ethernet
header & check-
sum; Add
tunnelling
headerCreate
reply
packet

630

610

Driver
114

TO TCP/IP

To hybrid
gateway
(via SLIP provider)

620

Fig. 6

TO TCP/IP

To hybrid
gateway
(via SLIP provider)

620

Source address: Slip Provider
Dest address: Hybrid Gateway

~510

Source address: Satellite Gateway
Dest address: Application server

~520

Fig. 7

09559148 042600

driver

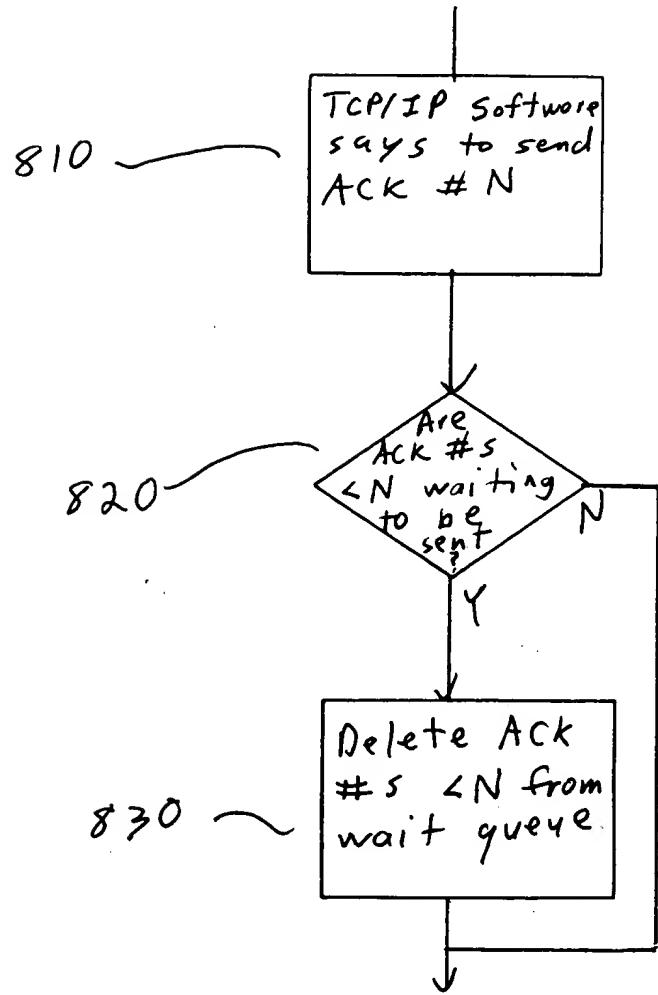


Fig. 8

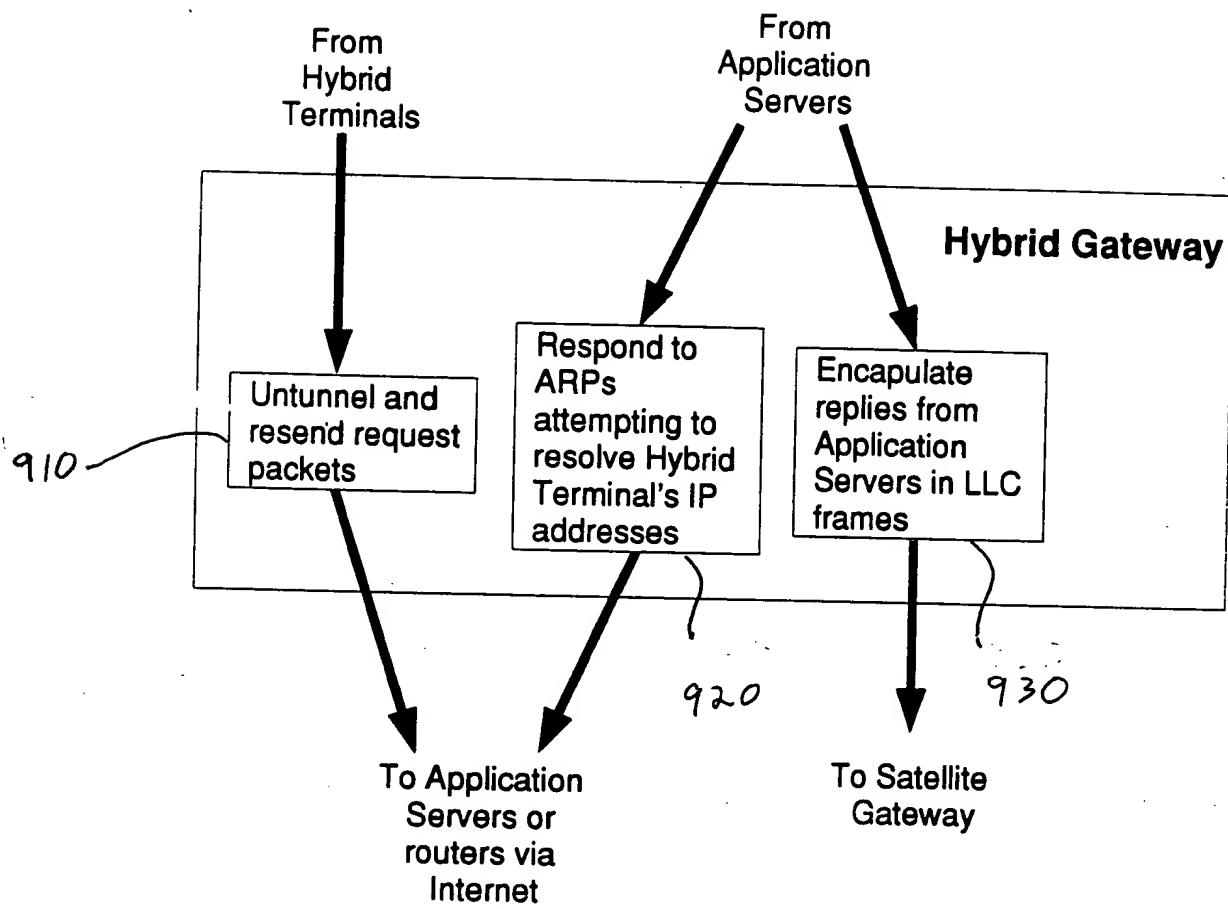
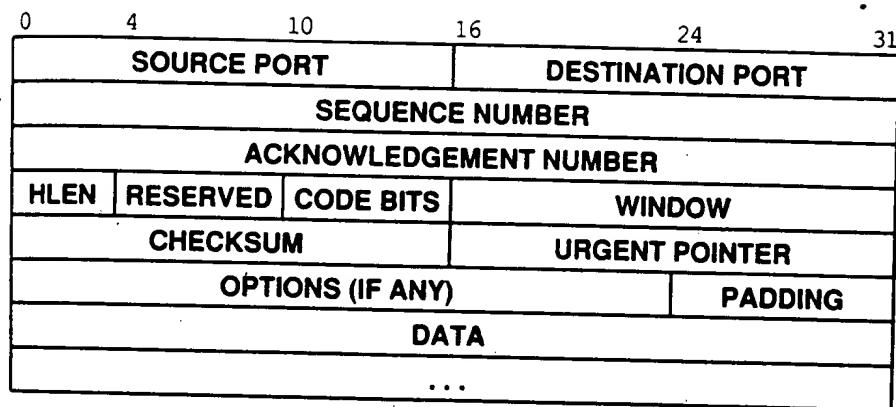


Fig. 9

LLC Header	Satellite Header	IP datagram(payload)
Delivers packet to Satellite Gateway <i>Stripped off in Satellite Gateway</i>	Used to ID correct receiver terminal <i>Stripped off in BIC driver in User Terminal</i>	Destined for TCP/IP package in User Terminal

Fig. 10



1102

1104

1106

TCP Packet

Fig. 11

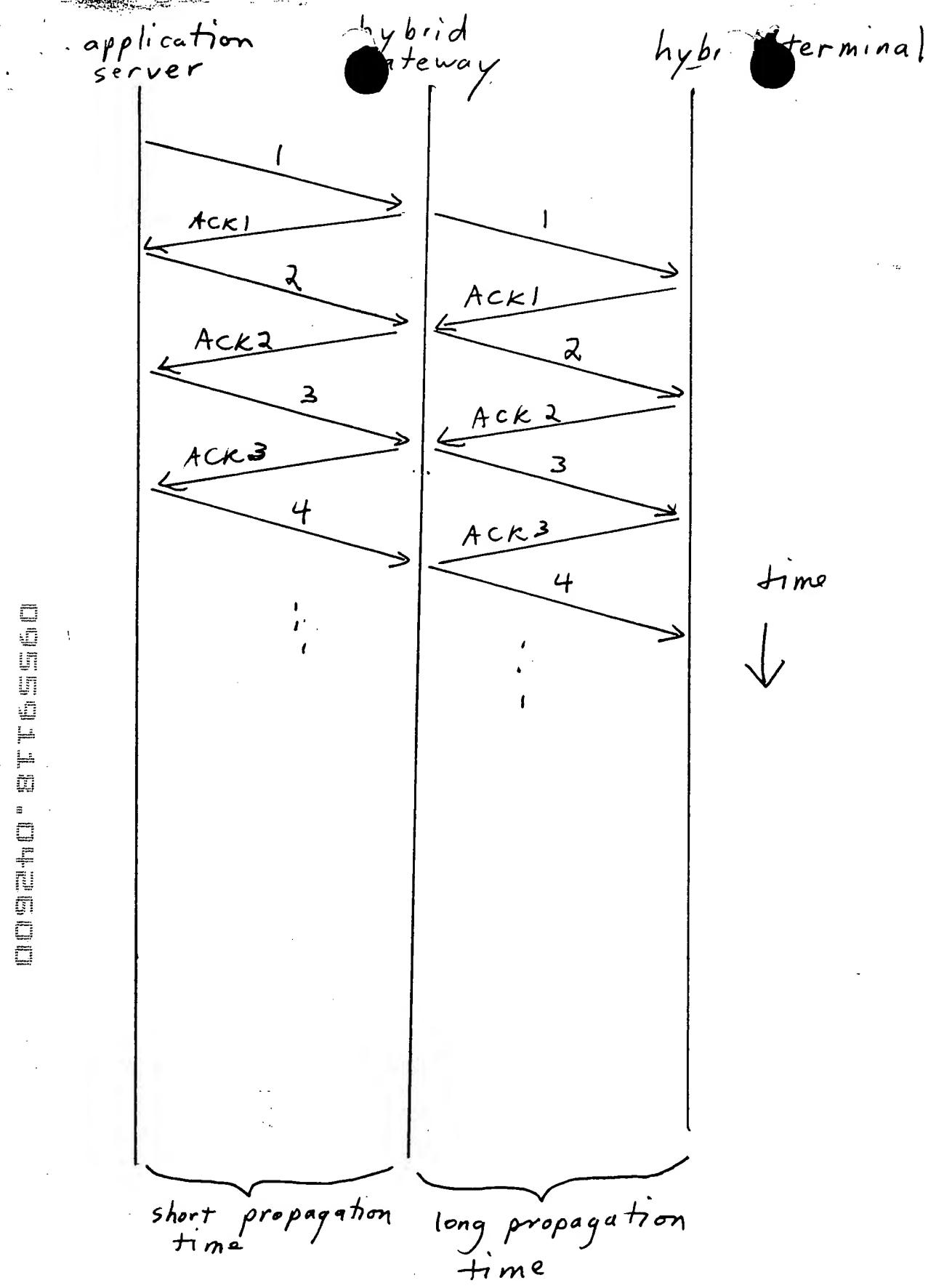


Fig. 12.

Hybrid Gateway

Fig. 13(a)

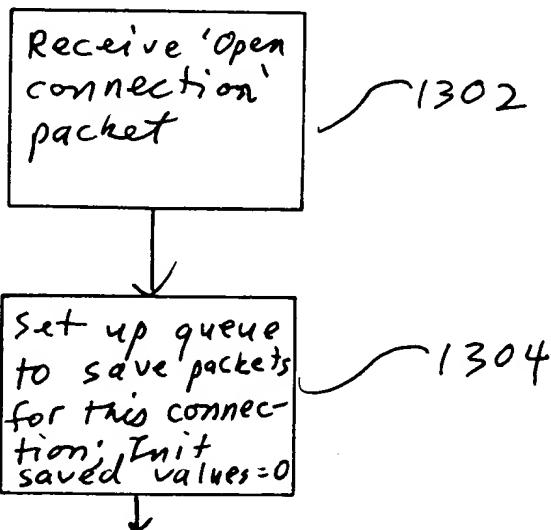


Fig. 13(b)

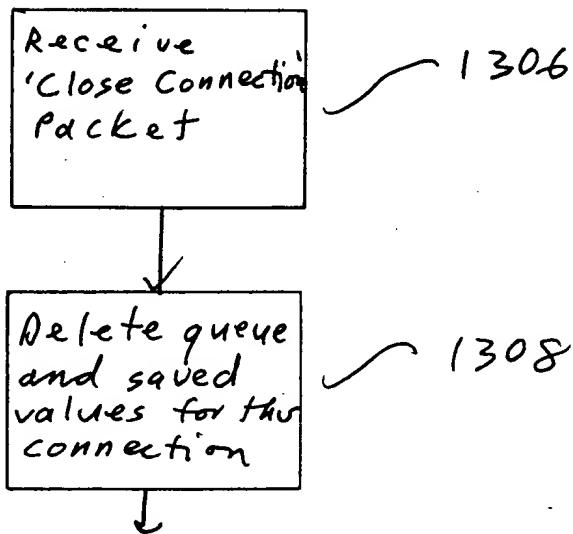
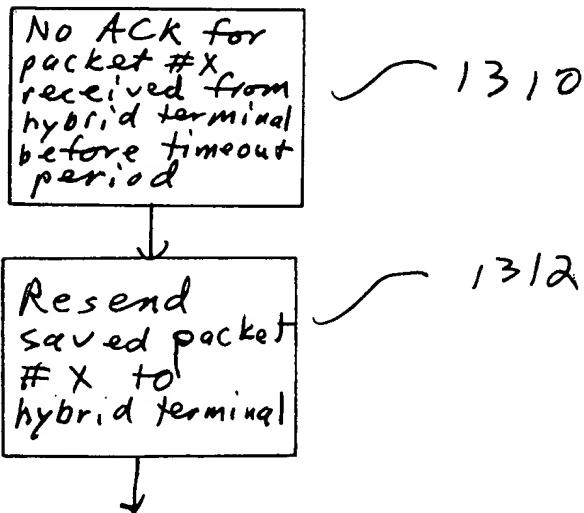


Fig. 13(c)



Hybrid Gateway

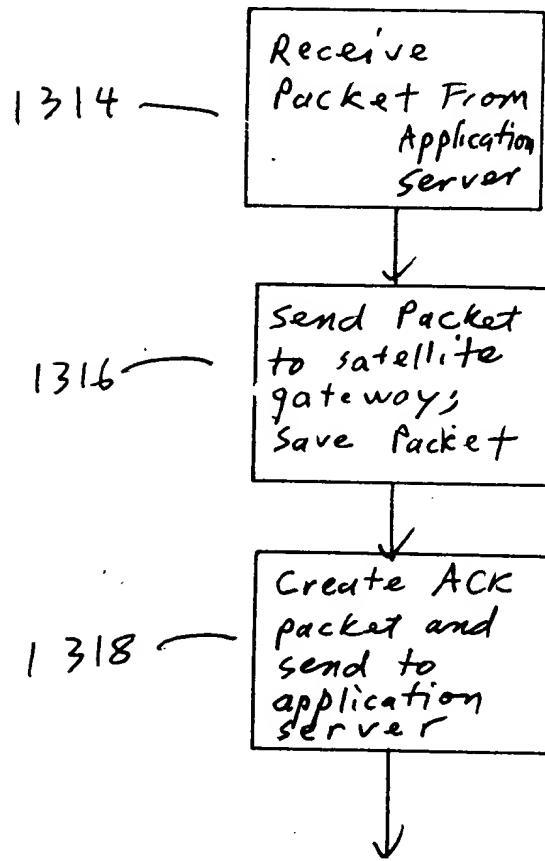


Fig. 13(d)

Hybrid Gateway

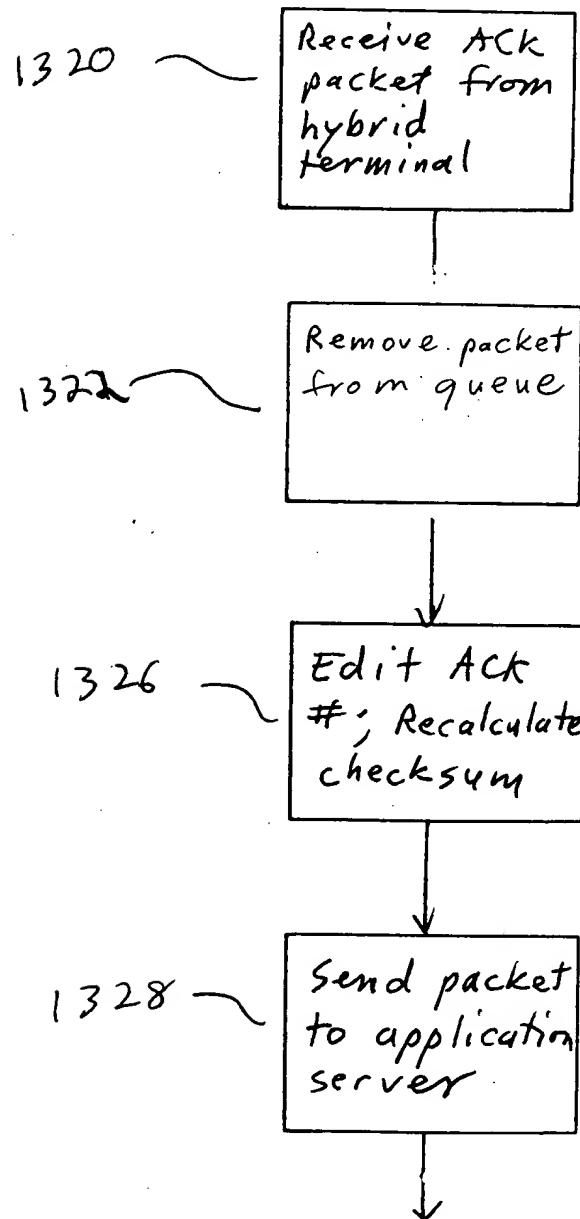


Fig. 13(e)